	Document ID	Issue Date	Title	Current OR	Inventor
	US 200301381 35 A1	20030724	Generation and verification of a digitized signature	382/119	Chung, Kevin Kwong-Tai et al.
1	US 6694045 B2		Generation and verification of a digitized signature	382/119	Chung; Kevin Kwong-Tai et al.
3	US 5612603 A	10070318	Rectilineal movement speed enhancing apparatus of an orthogonal coordinate robot	318/568.11	Kim; Hee J.

	Document	Issue Date	Title	Current OR	Inventor
1	US 200300288 51 A1	20030206	System and method of pen-based data input into a computing device	715/541	Leung, Paul Chung Po et al.
2	US 200201126 43 A1	20020822	Environmentally friendly, reliable, fast drying ink for point-of-sale thermal ink jet application	106/31.47	Tyvoll, David A. et al.
3	US 6783580 B2	20040831	Environmentally friendly, reliable, fast drying ink for point-of-sale thermal ink jet application	106/31.47	Tyvoll; David A. et al.
4	US 5956061 A	19990921	Ink supplementing device and method of ink cartridge in printing apparatus	347/87	Ahn; Byung-Sun
5	US 5650808 A	19970722	Color ink jet pen having nozzle group spacing to prevent color bleed	12/17/12	Vincent; Kent Douglas et al.
6	US 5510822 A	19960423	Ink-jet printer with heated print zone	347/102	Vincent; Kent D. et al.
7	US 5109352 A	19920428	System for encoding a collection of ideographic characters	715/542	O'Dell; Robert B.

	Document ID	Issue Date	Title	Current OR	Inventor
8	US 4879595 A	19891107	Technique for reproducing an image read from a color original	358/539	Niki; Hiroshi et al.
9	JP 06096281 A	19940408	METHOD AND DEVICE FOR PROCESSING INFORMATION		MATSUBAYASHI, KAZUHIRO et al.
10	NN9108222	19910801	Online Prototype Editing Improves Handwriting Recognition.		
11	NN910224	19910201	Improved Elastic Stroke Matching in Online Handwriting Recognition.		
12	NN9007250	19900701	Computing Character Match From Stroke Matches in Online Handwriting Recognition.		
13	NB8212384 8	19821201	Segmentation Procedure for Handwritten Symbols and Words. December 1982.		
14	US 3579330 A	19710518	IMAGE-FORMING PROCESS UTILIZING CONTACT ELECTRIFICATION	430/48	CUNNINGHAM ROBERT G et al.
15	US 3523818 A	19700811	RECORDING INSTRUMENT RESINOUS FILM	427/378	BLUMENTHAL JOHN
16	US 3488664 A	19700106	INK TRANSFER PRINTER	347/13	WINSTON CHARLES R

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17	US 3452360 A	19690624	HIGH-SPEED STYLOGRAPHIC APPARATUS AND SYSTEM	347/68	WILLIAMSON ROBERT R
18	US 3442152 A	19690506	TRANSMISSION AND CONTROLS	477/66	CHANA HOWARD E
19	US 3432844 A	19690311	CHARACTER GENERATION LOGIC	178/30	WINSTON CHARLES R
20	US 3419336 A	19681231	Ball point pens	401/111	KIRK NORBERT A
21	US 3394383 A	19680723	Electrographic recorder employing an array of writing electrodes and an analog-to-digital converter for energizing same	346/32	LLOYD WILLIAM A
22	US 3376551 A	19680402	Magnetic writing devices	382/188	ARMBRUSTER JOHN W
23	US 3337860 A	19670822	Display tracking	345/181	O'HARA JR ALMERIN C
24	US 3334354 A	19670801	Dotting ink recorder	346/140.1	MUTSCHLER EDWARD C
25	US 3316631 A	19670502	Process for manufacturing recorder pens or the like	29/558	FRITS KUYT
26	US 3282853 A	19661101	Azeotropic composition and process for attenuating magnetic ink characters	510/174	BENNETT EDWARD J

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27	US 3276904 A	19661004 .	Process of making a decorative surface covering	427/270	PALMER LEON B
28	US 3266419 A	19660816	High speed impact print hammer assembly with resilient energy storing means	101/93.19	ERPEL ADOLPH C et al.
29	US 3263090 A	19660726	Data stretching circuit	327/174	BLOCHER JR THOMAS J
30	US 3252164 A	19660517	Printing apparatus using porous printing member, reservoir and control means	346/140.1	SANFORD STANLEY E et al.
31	US 3238501 A	19660301	Optical scanning pen and codedcharacter reading system	1235/472 03	MAK STEPHEN M F et al.
32	US 3237606 A	19660301	Ink reservoir	401/135	SONNTAG CLEMENS A
33	US 3192629 A	19650706	Adaptor for scribers	122772 01	MORRISON DEWEY H
34	US 3161459 A	19641215	Automatic null- balancing electrical measuring recorders	346/145	CONKLIN CHARLES E
35	US 3057324 A	19621009	Xerographic developing apparatus	118/698	UB IWERKS
36	US 3049810 A	19620821	Xerographic fusing apparatus	34/618	UB IWERKS

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37	US 2987727 A	19610613	Automatic apparatus for assembling a pocket clip with a cap	227/7	GIBBOUS JAMES J et al.
38	US 2966059 A	19601227	Indicator of drilling mud gain and loss	73/152.21	DOWER ETHELL J
39	US 2896250 A	19590728	Apparatus for making ball point pens	53/561	CRAIG BURNIE J
40	US 2894797 A	19590714	Recording system	360/6	KIRBY ROBERT A et al.
41	US 2888822 A	19590602	Fuel testing apparatus	73/35.12	BURHANS RALPH W
42	US 2866839 A	19581230	OCR SCANNED DOCUMENT	123/637	Name not available
43	US 2780212 A	19570205	Internal combustion engine lubricating means and viscous dampener	123/195A	MALCOLM ROBERT H
44	US 2732799 A	19560131	OCR SCANNED DOCUMENT	101/416.1	Name not available
45	US 2511369 A	19500613	Fountain pen	401/44	PETIT WILLIAM H
46	US 2474160 A	19490621	Ductor roller adjustment and method	101/348	PEYREBRUNE HENRI E
47	US 2450421 A	19481005	Apparatus for simulating wind effects in aviation ground trainers	434/28	CRANE CARL J

	Document	Issue Date	Title	Current OR	Inventor
48	TIC	19470812	Electromagnetica lly operated pendulum type telegraph key	178/82B	BREEDLOVE BERNARD H
49	US 2407304 A	19460910	Device for preparing messages for facsimile transmission	33/25.1	EDWARD THOMPSON ALFRED et al.
50	US 2361174 A	19441024	OCR SCANNED DOCUMENT	346/91	Name not available
51	US 2298235 A	19421006	Circuit breaker operation recorder	346/33R	SEITZ RICHARD M et al.
52	US 2275601 A	19420310	Earth mover	37/426	AUSTIN ELLSWORTH W et al.
53	US 2275246 A	19420303	Measuring instrument	346/79	CALDWELL JOHN A
54	US 2269240 A	19420106	Recording instrument	346/17	ANDERSEN HENRY A
55	US 2127331 A	19380816	Apparatus for use in facsimile transmitting systems	346/35	OTHO FULTON
56	US 2125983 A	19380809	Electrical measuring instrument	324/113	BETTISON DAVID C et al.
57	US 2076676 A	19370413	Recording system	379/37	SIGO ARTHUR T
58	US 1972228 A	19340904	Indicator mechanism for internal combustion engines	346/5	KAUFFMANN WILLIAM M
59	US 1682169 A	19280828	OCR SCANNED DOCUMENT	144/28.71	Name not available

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16 (1)	US 1645117 A	19271011	Ink	106/31.51	HERMANN SCHLADEBACH et al.
	US 1597474 A	19260824	Internal- combustion engine	11 2 2 / 5 / 2	NORDWICK HENRY A et al.
16つ	US 1479286 A	11 924 11 11 1	Railway-train- control system	246/49	DAY ALBERT V T
16.4	US 1459087 A	ロタンスのんしな	Recording instrument	346/49	COX CLAUDE E
164	US 1447734 A	19230306	Rotogravure ink	106/31.88	ADOLPH SCHWENTERLEY

	Document	Issue Date	Title	Current OR	Inventor
1	US 200402331 97 A1	20041125	System and method for ink or handwriting compression	345/442	Liu, Zicheng et al.
2	US 200401005 08 A1	20040527	Method and arrangement for identifying and processing commands in digital images, where the user marks the command, for example by encircling it	715/863	Hansson, Marten
3	US 200400997 31 A1	20040527	System and method for creating a display card	235/380	Olenick, Michael et al.
4	US 200301401 02 A1	20030724	INFORMATION PROCESSING DEVICE AND STORAGE MEDIUM WITH A REPLY- PREPARING PROGRAM READABLE BY A COMPUTER	709/206	TAKEUCHI, MASATO et al.
5	US 200301173 81 A1	20030626	Hand writing input device for cellular phone	345/179	Wu, Yuan-Heng et al.
6	US 200301075 58 A1	20030612	Electronic pen and method for recording of handwritten information	345/179	Bryborn, Mattias et al.
7	US 200300558 65 A1	20030320	Communication protocol	709/200	Fransson, Bjorn et al.

	Document	Issue Date	Title	Current OR	Inventor
8	US 200300116 03 A1	20030116	Character display apparatus, character display method, character display program, and recording medium therefor	345/470	Koyama, Noriyuki et al.
9	US 200201364 62 A1	20020926	System, device, computer program product, and method for representing a plurality of electronic ink data points	382/246	Hebert, Peter F. JR.
10	US 200200446 87 A1	20020418	Customer feedback system	382/187	Federman, Ami
11	US 200200356 87 A1	20020321	Method and device for secure wireless transmission of information	713/168	Skantze, Kristofer
12	US 200200264 26 A1	20020228	Method of accessing the internet via the use of automated teller machines	705/64	Bennett, Joseph Michael
13	US 200100484 36 A1	20011206	Method and apparatus for sending electronic mail using human handwriting	345/467	Sanger, Terence David

	Document	Issue Date	Title	Current OR	Inventor
14	US 6780019 B1	20040824	Pen-based computing system with a releasable socket connector for connecting a base unit to a tablet unit	439/31	Ghosh; Prosenjit et al.
15	US 6741749 B2	20040525	System, device, computer program product, and method for representing a plurality of electronic ink data points	382/246	Herbert, Jr.; Peter F.
16	US 6738053 B1	20040518	Predefined electronic pen applications in specially formatted paper	345/179	Borgstrom; Anders et al.
17	US 6724375 B2	20040420	Hand writing input device for cellular phone	345/179	Wu; Yuan-Heng et al.
18	US 6714932 B1	20040330	Display-equipped information terminal device having mailing function and electronic mail transmitting method	707/10	Takeda; Kasumi et al.
19	US 6646573 B1	20031111	Reduced keyboard text input system for the Japanese language	341/28	Kushler; Clifford A. et al.

	Document ID	Issue Date	Title	Current OR	Inventor
20	US 6636162 B1	20031021	Reduced keyboard text input system for the Japanese language	341/28	Kushler; Clifford A. et al.
21	US 6593908 B1	20030715	Method and system for using an electronic reading device on non-paper devices	345/156	Borgstrom; Anders et al.
22	US 6560638 B1	20030506	Method of composing electronic mail in which mail expressions corresponding to a category attribute of an electronic mail ID of the destination are inserted into the outgoing electronic mail	709/206	Haneda; Isamu et al.
23	US 6510453 B1	20030121	System and method for creating and inserting multiple data fragments into an electronic mail message	709/206	Apfel; Darren et al.
24	US 6289303 B1	20010911	Method and system for supporting multiple pen based language sets	704/8	Atkin; Steven et al.
25	US 6249276 B1	20010619	Pen-inputted personal information terminal device	345/173	Ohno; Hiroyuki

	Document	Issue Date	Title	Current OR	Inventor
26	US 6148403 A	20001114	Data receiving with security feature	713/200	Haneda; Isamu et al.
27	US 5982928 A	19991109	Character recognizing apparatus and method of controlling the same	382/187	Shimada; Kazutoshi et al.
28	US 5835789 A	19981110	Communication equipment in which data to be transmitted includes a plurality of data groups with information on data format and a converter for converting the data groups	710/33	Ueda; Toru et al.
29	US 5742705 A	19980421	Method and apparatus for character recognition of handwritten input	382/185	Parthasarathy; Kannan
30	US 5687254 A	19971111	Searching and Matching unrecognized handwriting	382/229	Poon; Alex D. et al.
31	US 5581366 A	19961203	Method and apparatus for originating a facsimile message in a selective call receiver	358/400	Merchant; Zaffer et al.
32	US 5473143 A	19951205	ATM/POS based electronic mail system	235/380	Vak; Hugo et al.
33	US 5265033 A	19931123	ATM/POS based electronic mail system	709/206	Vajk; Hugo et al.

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34	JP 200130645 7 A	20011102	COMMUNICATION APPARATUS		TOKI, YASUYUKI et al.
35	JP 11085706 A	19990330	METHOD AND DEVICE FOR GENERATING APPLICATION DATA AND RECORDING MEDIUM RECORDING APPLICATION DATA GENERATION PROGRAM		NODA, YOSHIMUNE et al.
36	JP 10327231 A	19981208	MOBILE COMMUNICATION EQUIPMENT PROVIDED WITH ROTARY PUSH SWITCH		KAMATA, TOMIHISA et al.
37	JP 07064724 A	19950310	PEN INPUT DEVICE AND MEMO PROCESSING METHOD FOR THE DEVICE		YASUKAWA, SACHIKO
38	NN9202397	19920201	Hierarchical Multimedia Conversion Enforcer.		
39	NN8004498 8	19800401	Rotated Matrix Characters/Graph ics System. April 1980.		

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1 Pen computing: a technology overview and a vision

André Meyer

July 1995 ACM SIGCHI Bulletin, Volume 27 Issue 3

Full text available: pdf(5.14 MB)

Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

2 Papers: Off the wall: Fluid interaction with high-resolution wall-size displays François Guimbretière, Maureen Stone, Terry Winograd November 2001 Proceedings of the 14th annual ACM symposium on User interface

software and technology Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(1.34 MB)

This paper describes new interaction techniques for direct pen-based interaction on the Interactive Mural, a large (6'x3.5') high resolution (64 dpi) display. They have been tested in a digital brainstorming tool that has been used by groups of professional product designers. Our "interactive wall" metaphor for interaction has been guided by several goals: to support both free-hand sketching and high-resolution materials, such as images, 3D

Keywords: FlowMenu, Large displays, interactive wall

models and GUI application windows; to pres ...

Students' experiences with PDAs for reading course materials

J. Waycott, A. Kukulska-Hulme

May 2003 Personal and Ubiquitous Computing, Volume 7 Issue 1

Full text available: pdf(470.11 KB) Additional Information: full citation, abstract, index terms

The availability of text reading and editing software for Personal Digital Assistants (PDAs) makes it timely to consider whether PDAs are useful tools for reading learning materials. This paper describes a study that evaluated the use of PDAs for reading by students on a Masters course run by the UK Open University. The evaluation consisted of pre- and postquestionnaires, and follow-up interviews. In addition, students discussed their experiences in a computer-based conference. Findings s ...

Results (page 1): +recogni??? <paragraph> +pen <paragr... Page 2 of 5

'Keywords: Evaluation, Handheld computer, Learning, PDA, Palmtop, Reading

4 Word sense disambiguation using a second language monolingual corpus Ido Dagan, Alon Itai

December 1994 Computational Linguistics, Volume 20 Issue 4

Full text available: pdf(2.57 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

This paper presents a new approach for resolving lexical ambiguities in one language using statistical data from a monolingual corpus of another language. This approach exploits the differences between mappings of words to senses in different languages. The paper concentrates on the problem of target word selection in machine translation, for which the approach is directly applicable. The presented algorithm identifies syntactic relations between words, using a source language parser, and maps t ...

5 Architecture of the IBM system/370

Richard P. Case, Andris Padegs

January 1978 Communications of the ACM, Volume 21 Issue 1

Full text available: pdf(2.78 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper discusses the design considerations for the architectural extensions that distinguish System/370 from System/360. It comments on some experiences with the original objectives for System/360 and on the efforts to achieve them, and it describes the reasons and objectives for extending the architecture. It covers virtual storage, program control, data-manipulation instructions, timing facilities, multiprocessing, debugging and monitoring, error handling, and input/output operations. ...

Keywords: architecture, computer systems, error handling, instruction sets, virtual storage

Bridging the paper and electronic worlds: the paper user interface Walter Johnson, Herbert Jellinek, Leigh Klotz, Ramana Rao, Stuart K. Card May 1993 Proceedings of the SIGCHI conference on Human factors in computing systems

Full text available: pdf(613.93 KB)

Additional Information: full citation, abstract, references, citings, index terms

Since its invention millenia ago, paper has served as one of our primary communications media. Its inherent physical properties make it easy to use, transport, and store, and cheap to manufacture. Despite these advantages, paper remains a second class citizen in the electronic world. In this paper, we present a new technology for bridging the paper and the electronic worlds. In this new technology, the user interface moves beyond the workstation and onto paper itself. We describe paper user ...

7 Modeling and animating hands & bodies: Construction and animation of anatomically based human hand models



Irene Albrecht, Jörg Haber, Hans-Peter Seidel

July 2003 Proceedings of the 2003 ACM SIGGRAPH/Eurographics Symposium on Computer animation

Full text available: pdf(7.55 MB) Additional Information: full citation, abstract, references, index terms

The human hand is a masterpiece of mechanical complexity, able to perform fine motor manipulations and powerful work alike. Designing an animatable human hand model that features the abilities of the archetype created by Nature requires a great deal of anatomical detail to be modeled. In this paper, we present a human hand model with underlying

	anatomical structure. Animation of the hand model is controlled by muscle contraction values. We employ a physically based hybrid muscle model to convert	
8	Use of video shadow for small group interaction awareness on a large interactive display surface Mark Apperley, Laurie McLeod, Masood Masoodian, Lance Paine, Malcolm Phillips, Bill Rogers, Kirsten Thomson February 2003 Proceedings of the Fourth Australian user interface conference on User	
	interfaces 2003 - Volume 18 Full text available: pdf(1.93 MB) Additional Information: full citation, abstract, references, index terms	
	This paper reports work done as part of the Large Interactive Display Surface(LIDS) project at the University of Waikato. One application of the LIDS equipment is distributed meeting support. In this context large display surfaces are used as shared workspaces by people at collaborating sites. A meeting will start with a shared presentation document, typically an agenda document with summary and detail on agenda items as required. During the meeting, annotations will be made on the shared docume	
	Keywords : awareness, collaboration, computer supported collaborative work, large interactive display surface, shadow, silhouette, whiteboard metaphor	
9	On line context free language recognition in less than cubic time(Extended Abstract) Susan L. Graham, Michael A. Harrison, Walter L. Ruzzo May 1976 Proceedings of the eighth annual ACM symposium on Theory of computing	
	Full text available: pdf(696.58 KB) Additional Information: full citation, abstract, references, citings, index terms	
	A new on-line context free language recognition algorithm is presented which is derived from Earley's algorithm and has several advantages over the original. First, the new algorithm not only is conceptually simpler than Earley's, but also allows significant speed improvements. Second, our algorithm serves to explain the connections between Earley's algorithm and the Cocke-Kasami-Younger algorithm. Third, our algorithm allows an implementation which uses only 0(n2/log n	
10	A layered approach to NLP-based information retrieval Sharon Flank August 1998	
	Full text available: pdf(724.81 KB) Additional Information: full citation, abstract, references, citings	
	A layered approach to information retrieval permits the inclusion of multiple search engines as well as multiple databases, with a natural language layer to convert English queries for use by the various search engines. The NLP layer incorporates morphological analysis, noun phrase syntax, and semantic expansion based on Word-Net.	
11	Noncommand user interfaces Jakob Nielsen April 1993 Communications of the ACM, Volume 36 Issue 4	
	Full text available: pdf(6.81 MB) Additional Information: full citation, references, citings, index terms	
12	Dynabook revisited—portable computers past, present and future Larry Press March 1992 Communications of the ACM, Volume 35 Issue 3	
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13 Identifying & sketching the future: MathPad ² : a system for the creation and exploration of mathematical sketches Joseph J. LaViola, Robert C. Zeleznik August 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 3	
Full text available: 🔁 pdf(475.34 KB) Additional Information: full citation, abstract, references, index terms	
We present <i>mathematical sketching</i> , a novel, pen-based, modeless gestural interaction paradigm for mathematics problem solving. Mathematical sketching derives from the familiar pencil-and-paper process of drawing supporting diagrams to facilitate the formulation of mathematical expressions; however, with a mathematical sketch, users can also leverage their physical intuition by watching their hand-drawn diagrams animate in response to continuous or discrete parameter changes in their writt	
Keywords : gestures, mathematical sketching, pen-based interfaces	•
14 Before the Altair: the history of personal computing Larry Press	
September 1993 Communications of the ACM, Volume 36 Issue 9 Full text available: Robotics Additional Information: full citation, references, citings, index terms	
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 Wireless Coyote: a computer-supported field trip Wayne C. Grant May 1993 Communications of the ACM, Volume 36 Issue 5 	
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16 An efficient text input method for pen-based computers Toshiyuki Masui January 1998 Proceedings of the SIGCHI conference on Human factors in computing	
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Full text available: pdf(1.06 MB) Additional Information: full citation, references, citings, index terms Keywords: POBox, hand-held devices, input devices, international interfaces, pen-based input, predictive interface	
Keywords: POBox, hand-held devices, input devices, international interfaces, pen-based	
Keywords: POBox, hand-held devices, input devices, international interfaces, pen-based input, predictive interface 17 An interactive system for recognizing hand drawn UML diagrams Edward Lank, Jeb S. Thorley, Sean Jy-Shyang Chen November 2000 Proceedings of the 2000 conference of the Centre for Advanced Studies on Collaborative research	

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September 1998 interactions, Volume 5 Issue 5 Full text available: pdf(924.15 KB) Additional Information: full citation, references, index terms	
19 <u>Approximate String Matching</u> Patrick A. V. Hall, Geoff R. Dowling December 1980 ACM Computing Surveys (CSUR) , Volume 12 Issue 4	
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20 <u>Human-computer interface development: concepts and systems for its management</u> H. Rex Hartson, Deborah Hix March 1989 ACM Computing Surveys (CSUR) , Volume 21 Issue 1	
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Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. Dialogue independence is th	
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